



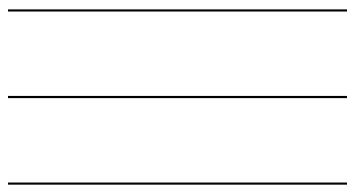
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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-T3H. You'll find the answers to all your questions on the ICOM IC-T3H in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ICOM IC-T3H
User guide ICOM IC-T3H
Operating instructions ICOM IC-T3H
Instructions for use ICOM IC-T3H
Instruction manual ICOM IC-T3H



VHF TRANSCEIVER
IC-T3H



Icom Inc.



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16, 19) Input digit "0" during frequency input, Enters into the DTMF memory channel memory mode. (p. 27) [0-DTMF-M] lection, etc. (pgs. 16, 19) No function.

[OPTION] Sets the frequency even if the full 6-digits of frequency have] not been entered. (p. 16) Selects an optional pager or code squelch operation mode. (p.38) Switches key pad lock function ON and OFF when pushed for 1 sec. Lock all keys, except [POWER], [PTT], [SQL] and audio level adjustment. (p. 19) [#-ENT 5 PANEL DESCRIPTION 1 I Function display q w e r t y u i o !5 !4 !3 !0 !1 !2 q FUNCTION INDICATOR Appears when correct charging. (Insert together with AD-99.) BC-146 +AD-99 11 BATTERY PACKS 3 D About AD-99 Attach the spacer (Spacer B/C) to the adapter (Spacer A) with orientation as illustrated in the diagram below.

Check orientation and Spacer A Spacer B/C · Attach the spacer (Spacer B/C) to the adapter with the orientation of the stamp " " pointing up. When removing the spacer (Spacer B/C), push the notch carefully with your finger to remove the spacer (Spacer B/C) from the adapter (Spacer A). Remove the spacer (Spacer B/C) from the adapter. Push the notch carefully. R CAUTION! DO NOT push or force the notch with a screw driver, etc., to remove it. DO NOT bend the radio level Rotate the [VOL] to set the desired audio level while receiving the signal. · When no signal is received, push and hold [SQL] while setting the audio level. · When [VOL] is assigned as "dial," push [Y]/[Z] to adjust the audio output level. (p.

50) D To set the squelch level While pushing [SQL], push [Y]/[Z] to set the squelch level. · The squelch level "1" is loose squelch, "10" is tight squelch. · When [VOL] is assigned as "dial," rotate [VOL] while [SQL] is pushed. (p. 50) 17 BASIC OPERATION 4 I Receive and transmit q Push [POWER] for 1 sec. to turn the power ON. w Adjust volume to the desired level. e Set a frequency. When a signal is received: · Squelch opens and audio is emitted from the speaker. · Signal indicator shows the relative signal strength level.

r Push [A-FUNC], then push [9-H/L] to toggle output power between high and low. · "L" appears when low output power is selected. t Push and hold [PTT] to transmit, then speak into the microphone. · "TX" appears. · Do not hold the microphone too close to your mouth or speak too loudly. This may distort the signal. y Release [PTT] to receive. For your information Monitor function: Push and hold [SQL] to listen to weak signals that do not open the squelch. 18 4 BASIC OPERATION I Selecting a memory channel q Push [C-MR] to select memory mode. · "X" appears.

w Enter 2 digits to select the desired memory channel (or push the [Y]/[Z] keys). @@(p. 50) · The memory channels 09 are preceded by a "0." I Selecting the call channel Push [B-CALL] to select the call channel. · "C" is displayed instead of the memory channel number. · Push [D-CLR] or [C-MR] to return to previous indication. I Key lock function The key lock function prevents accidental frequency changes and function activation.] for Push [A-FUNC] then push [#-ENT 1 sec. to toggle the function ON and OFF. · " " appears while the lock function is activated.

· [POWER], [PTT], [VOL] and [SQL] can be operated regardless of this setting. 19 BASIC OPERATION 4 I Display type USING INITIAL SET MODE The transceiver has 3 display types to match your operating style. The display type is selected in the INITIAL SET MODE (p. 50). "Frequency Indication" type is used for basic amateur radio operation.

"Channel Indication" type is used to simplify operation. In this mode only pre-programmed memory channel numbers are displayed. VFO mode cannot be selected. · When the channel indication type is selected, only the following functions can be performed. - Scan function (p.

29) - Output power setting (p. 18) - DTMF memory function (p. 27) - Key lock function (p. 19) - Scan pause timer setting, function key timer setting and LCD backlight setting in SET MODE (p. 46) "Channel Name Indication" type is used to simplify operation the same as above. In this mode pre-programmed memory channel names are displayed. VFO mode selectable. · Programmed frequency is indicated when the channel name is not pre-programmed in the selected memory channel. · Push and hold [SQL] to display the operating frequency. 20 I General When using a repeater, the transmit frequency is shifted from the receive frequency by the offset frequency.

It is convenient to program repeater information into memory channels. q Set the receive frequency (repeater output frequency). w Push [A-FUNC], then push [4-DUP] several times to select "" or 5 REPEATER OPERATION "+." · "" indicates the transmit frequency is shifted down; "+" indicates the transmit frequency is shifted up. · Flashing "" or "+" indicates the reversed duplex mode is selected in SET MODE (p. 45). e Push [A-FUNC], then push [1-TONE] to activate the subaudible tone encoder, according to repeater requirements. · " " appears · Select the desired subaudible tone frequency, if necessary. (p. 22) r Push and hold [PTT] to transmit.

· The displayed frequency automatically changes to the transmit frequency (repeater input frequency). · If "OFF" appears, check the offset frequency and direction. t Release [PTT] to receive. y Push and hold [SQL] to check whether the other station's transmit signal can be directly received or not. About reversed duplex mode When the reversed duplex mode is selected, the receive frequency shifts.

(Transmit frequency shifts in normal duplex mode.) Each receive and transmit frequency is shown in the table below with the following conditions; Inputted freq.: 145.30 MHz Reversed OFF ON Direction : (negative) Rx frequency 145.30 MHz 144.

70 MHz Offset frequency : 0.6 MHz Tx frequency 144.70 MHz 145.30 MHz 21 REPEATER OPERATION 5 I Offset frequency USING SET MODE When communicating through a repeater, the transmit frequency is shifted from the receive frequency by an amount determined by the offset frequency. q Push [A-FUNC], then push [8-SET] to enter SET MODE. w Push [Y]/[Z] several times until "±" and offset frequency appear. e Rotate [VOL] to select the desired offset frequency. · Selectable steps are the same as the pre-set tuning steps. · The unit of the displayed offset frequency is "MHz." r Push [#-ENT] to fix the offset frequency and exit SET MODE.



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USING I Subaudible tones SET MODE Some repeaters require subaudible tones to be accessed. Subaudible tones are superimposed over your normal signal and must be set in advance. q Push [A-FUNC], then push [8-SET] to enter SET MODE. F MR TX w Push [Y]/[Z] one or more times until "rt" appears. e Rotate [VOL] to select the desired subaudible tone. r Push [#-ENT] to enter the selected tone and exit set mode. Available subaudible tone frequencies 67.0

69.3 71.9 74.

4 77.0 79.7 82.5 85.4 88.

5 91.5 94.8 97.4 100.0 103.

5 107.2 110.9 114.8 118.8 123.0 127.3 131.8 136.5 141.3 146.

2 151.4 156.7 159.8 162.2 165.5 167.9 171.3 173.8 177.3 179.

9 183.5 186.2 189.9 192.8 196.

6 199.5 (unit: Hz) 203.5 206.5 210.7 218.

1 225.7 229.1 233.6 241.8 250.3 254.1 22 5 REPEATER OPERATION D Tone information Some repeaters require a tone to be accessed. DTMF TONES While pushing [PTT], push the desired DTMF keys (09, AF) to transmit DTMF tones. · The transceiver has 5 DTMF memory channels (p. 27).

1750 Hz TONE While pushing [PTT], push [Y] or [Z] to transmit a 1750 Hz tone signal. @@@@ (21, 22) · Subaudible tone encoder or tone squelch ON/OFF (pgs. 21, 34) · Subaudible tone and tone squelch frequencies (pgs. 22, 35) · Skip information* (p. @ @w Set the desired frequency. e Set other information such as tone, duplex, etc. as desired. r Push [A-FUNC], then push [C-MR] for 1 sec. @@@@ (50). w Push [C-MR] to select memory mode, if necessary.

@@r Rotate [VOL] to select a character. t Push [Y] to move to the right, [Z] to move to the left. · Up to 5 characters can be used for channel name. @@Push [Y]/[Z] to select the memory channel. @@(p.

50) w Push [A-FUNC], then push [C-MR] for 1 sec. @@Push [Y]/[Z] to select the memory channel. @@(p. @@@@ (p. @ @w Push [Y]/[Z] to select the memory channel to be cleared.

@@ (p. 50) · The call channel cannot be cleared. @@ · The contents of the selected memory are cleared. @@w Rotate [VOL] to select the desired channel. e Push [A-FUNC], then push [0-DTMF-M] for 1 sec. @@ · Programmed memories can be cleared in this way. @@@@ @e Push [SQL] or [PTT] to exit the DTMF memory mode. @ @w Push [Y]/[Z] several times until "dtd" appears. @ @intervals) is the fastest; "5" (500 msec. intervals) is the slowest.

@@@@ @q Push [D-CLR] to select VFO mode, if necessary. @@@@ · To change the scan direction, push [Y] or [Z]. @@@ (p. @@Program them in the same manner as regular memory channels. (p. @@@@ (p. @@@@ @w Push [D-CLR] to select VFO mode. e Push [A-FUNC], then push [7-PRIO] to start watching. · VFO is displayed, then the decimal point ".", on the frequency readout flashes.

· The priority channel is monitored every 5 sec. · When the signal is detected on the priority channel, the watching is paused according to the setting of the scan resume condition. r Push [D-CLR] to stop watching. D Memory scan watch While operating on a VFO frequency or the call channel, memory scan watch monitors for signals in each memory channel in sequence, every 5 sec. q Push [C-MR] to select memory mode, if necessary.

· "X" appears. w Push [A-FUNC], then push [5-SCAN] to start the memory scan. e Push [A-FUNC], then push [7-PRIO] to start the watching. · VFO is displayed, then the decimal point ".", on the frequency readout flashes.

· When the signal is detected on the priority channel, the watching is paused according to the setting of the scan resume condition. r Push [D-CLR] to stop the watching. 32 8 SCAN OPERATION USING I Scan resume condition When a signal is received during scanning, the scan resume condition determines what action the transceiver takes. The transceiver has 2 scan resume conditions available as illustrated at right. Use SET MODE to select the one which best suits your needs. SET MODE Receiving a signal Pause scan 2 sec. Timer scan 5, 10 or 15 sec. q Push [A-FUNC], then push [8-SET] to enter SET MODE. w Push [Y]/[Z] several times until "SCP" or "ScR" appears. e Rotate [VOL] to select the desired scan resume condition.

· Pause scan: When receiving a signal, scan pauses on the signal until it disappears. Resumes 2 sec. after the signal disappears. Timer scan: When receiving a signal, scan pauses on the signal for 5 sec., 10 sec. or 15 sec., then resumes. F MR TX Pause scan F MR TX Timer scan r Push [#-ENT] to set and exit SET MODE. 33 SUBAUDIBLE TONES I Tone squelch D Operation 9 The tone squelch opens only when receiving a signal containing a matching subaudible tone.

You can silently wait for calls from group members using the same tone.

q Set the operating frequency. · Set the AF and squelch to the desired level as the normal operation. w Set the desired subaudible tone in the set mode. · See right for programming. e Push [A-FUNC], then push [1-TONE].

· Repeat several times until " " appears when selecting CTCSS, or "D" appears when selecting DTCS. r When the received signal includes a matching tone, squelch opens and the signal can be heard. · When the received signal's tone does not match, tone squelch does not open, however, the S-indicator shows signal strength. · To open the squelch manually, push and hold [SQL]. t Operate the transceiver in the normal way.

y To cancel the tone squelch, push [A-FUNC], then push [1-TONE]. · Repeat several times until " " or "D" disappears. NOTE: The transceiver has 50 tone frequencies and consequently their spacing is narrow compared to units having 38 tones. Therefore, some tone frequencies may receive interference from adjacent tone frequencies. To prevent interference from adjacent tone frequencies, using the frequencies as in the following table, is recommended. ·

Recommended tone frequencies 67.0 69.3 71.9 74.4 77.

0 79.7 82.5 85.4 88.5 91.5 94.8 97.4 100.0 103.5 107.

2 110.9 114.8 118.8 123.0 127.

3 131.8 136.5 141.3 146.2 151.

4 156.7 162.2 167.9 173.8 179.9 186.2 192.8 203.5 210.7 218.

1 225.7 233.6 241.8 250.3 34 9 SUBAUDIBLE TONES D Setting subaudible tones for tone squelch operation Separate tone frequencies can be set for tone squelch operation rather than repeater operation (the same range of tones is available-- see below). Like the repeater tones, these are set in set mode. q Select VFO or memory channel. w Push [A-FUNC], then push [8-SET] to enter set mode. e Push [] or [] several times until "Ct" ap- F MR pears when selecting CTCSS, or "dt" appears when selecting DTCS. · " " flashes when selecting CTCSS, or "D" flashes when selecting DTCS.

F MR TX D TX r Rotate [VOL] to select the desired subaudible tone.] to program the selected tone and exit set t Push [#-ENT mode.

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When SET MODE is selected from memory mode. y Push [A-FUNC], then push [C-MR] for 1 sec. · 3 beeps are emitted.

@@@@@@· " " appears. @ and " " flashes. To stop the beeps manually, push any key. " " continues flashing until step y is operated. y Push [PTT] to answer.

@@q Set the frequency to be checked for a tone frequency or code. @@@@- No indication : Cannot be used for operation. @@These codes are 3-digit DTMF codes and must be written into the code channels before operation. q Decide the ID code of each transceiver and a group code for your group. w Decide whether you want to return to normal operation or code squelch operation after a connection is made. e Program the ID code, group code and transmit codes (other station's codes) as below. D Code channel assignment ID OR CODE CHANNEL GROUP CODE NUMBER Your ID code Other parties' ID code Group code Memory space* 0 16 P "RECEIVE ACCEPT" OR "RECEIVE INHIBIT" "Receive accept" only "Receive inhibit" should be programmed in each channel. "Receive accept" must be programmed. "Receive inhibit" only. *Channel CP automatically memorizes an ID code when receiving a pager call.

The contents in channel CP cannot be changed manually. 39 PAGER/CODE SQUELCH 10 D Code programming An ID code MUST be programmed into code channel C0. Up to 6 transmit codes are programmable into code channels, C1 to C6, if required. q Push [A-FUNC], then push [-OPTION]. · Pager mode is selected. · 100 MHz digit shows "P." F MR TX w Push [A-FUNC], then push [8-SET]. · One of either "CP" or "C0" to "C6" flashes. · "C0" is the ID code and "C1" to "C6" are transmit codes. F MR TX e Rotate [VOL] to select code channel C0.

· A different ID code must be programmed into each transceiver. r Enter the desired 3-digit ID code via the keypad. F MR TX t Rotate [VOL] to select a transmit code channel from C1 to C6. y Enter the desired 3-digit transmit code via the keypad. u Push [A-FUNC], then push [6-SKIP] to set the channel for "receive inhibit" or "receive accept.

" F MR TX F SKIP MR TX · When "receive inhibit" is set, "SKIP" appears as at right. · Code channel C0 cannot be set as "receive inhibit." · See the table for "receive accept" and "receive inhibit" details (p. 41). i Repeat steps t and y to set additional transmit code channels, if desired.

] or [PTT] to exit code set mode. o Push [#-ENT 40 10 PAGER/CODE SQUELCH · Receive accept/receive inhibit "Receive accept" ("SKIP" indicator does not appear) accepts pager calls when the transceiver receives a signal with a code the same as that in the code channel. "Receive inhibit" ("SKIP" indicator appears) rejects calls even when the transceiver receives a code the same as that in the code channel. Transmit codes should therefore be programmed for "receive inhibit," otherwise the transceiver will not reject unnecessary calls. · Pager/code squelch operation during channel indication To use these functions in channel indication, the pager/code squelch setting must be programmed with other memory contents before selecting channel number indication. 41 PAGER/CODE SQUELCH 10 I Pager operation D Calling a specific station Optional UT-108 required q Program the desired code channel in advance (p. 40). w Set the operating frequency. · Set the AF and squelch to the desired level as in normal operation. e Push [A-FUNC], then push [-OPTION].

· Pager mode is selected. · 100 MHz digit shows "P." F MR TX r Select the desired transmit code channel: Push [A-FUNC], then push [8-SET]. Rotate [VOL] to select the desired code channel. Push [#-ENT] to return to previous condition. t Push [PTT] to transmit the pager code. y Wait for an answer back. · When the transceiver receives an answer back code, the function display shows the other member's ID or group code. u After confirming a connection, push [A-FUNC], then push [-OPTION] to select the code squelch operation, or repeat the previous key operation again to select non-selective calling system. · DO NOT push any digit keys while code channels C0 to C6 are displayed, or code channel contents will be changed.

i Communicate with the other party as normal: push [PTT] to transmit; release to receive. 42 10 PAGER/CODE SQUELCH D Waiting for a call from a specific station q Set the operating frequency. w Push [A-FUNC], then push [-OPTION]. · 100 MHz digit shows "P." e Wait for a call.

· When receiving a call, the caller's ID or group code appears as shown below. · DO NOT push any digit keys while code channels C0 to C6 are displayed, or code channel contents will be changed. r Push [PTT] to send an answer back call and display the operating frequency. t After confirming a connection, push [A-FUNC], then push [-OPTION] to select code squelch operation, or repeat previous key operation again to select non-selective calling system. · PERSONAL CALLS This display appears when you are called with your ID code and the calling station's ID code is 123.

· GROUP CALLS This display appears when you are called with the group code, 888, and 888 has been programmed into code channel C6. · ERROR INFORMATION When the transceiver receives an incomplete signal, "E" and previously received code appear. F SKIP MR TX CP and flash. Code channel F MR TX F MR TX Previously received code. 43 PAGER/CODE SQUELCH 10 I Code squelch Optional UT-108 required Code squelch provides communications with quiet standby since you will only receive calls from stations which know your ID or group code. Each push of [PTT] sends a 3-digit code in order to open the receiving station's code squelch prior to voice transmission. q Set the operating frequency. · Set the AF and squelch to the desired level as in normal operation. w Push [A-FUNC], then push [-OPTION]. · Repeat several times, if necessary.

· Code squelch mode is selected. · 100 MHz digit shows "C." F MR TX e Select the desired transmit code channel: Push [A-FUNC], then push [8-SET]. Rotate [VOL] to select the desired code channel. Push [#-ENT] to exit code set mode. r Operate the transceiver in the normal way (push [PTT] to transmit; release [PTT] to receive). t To cancel the code squelch, push [A-FUNC], then push [-OPTION].



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· 100 MHz digit shows "1" when the function is cancelled. 44 I Set mode 11 OTHER FUNCTIONS D Entering set mode q Push [A·FUNC], then push [8·SET]. w Push [] or [] to select the desired item.

e Rotate [VOL] to select the condition/value. · To exit set mode, push [#·ENT]. D Repeater tone frequency Selects tone encoder frequency for accessing a repeater, etc. from one of 50 available frequencies. · 67.

0254.1 Hz (50 tones): 88.5 Hz (default) D Tone squelch frequency Selects frequency for tone squelch or pocket beep operation from one of 50 available frequencies. · 67.0254.

1 Hz (50 tones): 88.5 Hz (default) D DTCS code Selects DTCS encoder/decoder code with polarity (N: normal/I: inverse) from one of 208 available codes. · 023N/I754N/I: 023N (default) D Offset frequency Sets the offset frequency for duplex (repeater) operation within 020.00 MHz range. D Reverse function Turns the reverse function ON and OFF. · Default: OFF F MR TX F MR TX F MR D TX F MR TX F MR TX 45 OTHER FUNCTIONS 11 D Tuning step Selects tuning step from 5, 10, 12.5, 15, 20, 25, 30 and 50 kHz. F MR TX D Scan pause timer Selects the scan pause time from Sct.5, F MR TX Sct.10, Sct.15 and SCP. 2. When receiving signals, the scan pauses according to the scan pause time. F TX MR · Sct. 5/10/15 : Scan pauses for 5/10/15 sec. (default: Sct.15) · SCP. 2 : Scan pauses until the signal disappears. Resumes 2 sec. after the signal disappears.

D Function key timer Selects [A·FUNC] effect timer from F0.At, F MR F1.At, F2.At, F3.At and F .

m. F " disappears immediately after · F0.At : " secondary function is operated. F MR (default) · F1/2/3.At : " F " disappears after 1/2/3 sec. after secondary function is operated. · F .m : " F " appears until [A·FUNC] is pushed again. TX TX D LCD backlight F TX MR Selects LCD backlight lighting condition from auto, ON and OFF. · LIG.At : Lights when any key except [PTT] is pushed. (default) · LIG.ON : Lights continuously while the transceiver is powered ON. · LIG.OF : Never lights.

46 11 OTHER FUNCTIONS D Transmission permission Turns transmission permission ON and OFF. This function can be set for each memory and call channel, independently. · tX .ON: Transmission is permitted. (default) · tX .OF : Transmission is inhibited. F MR TX Optional UT-108 required D Pager/Code squelch channel Programs 3-digit ID code in channel "C0" F TX MR and individual or group call code in channel "C1" to "C6" for the pager and code squelch functions. See p. 41 for programming details. *This item appears only when the optional UT-108 is installed and pager or code squelch function is activated.

47 OTHER FUNCTIONS 11 I Initial set mode AT POWER ON The initial set mode is accessed at power on and allows you to set seldom-changed settings. In this way, you can "customize" transceiver operations to suit your preference and operating style. D Entering initial set mode q While pushing [] and [], turn power ON. w Push [] or [] to select the desired item. e Rotate [VOL] to select the condition/value.

· To exit set mode, push [#·ENT]. D Key-touch beep Turns key-touch beep emission ON and OFF. · Default: ON F MR TX D Time-out timer To prevent accidental prolonged transmission, F TX MR etc., the transceiver has a time-out timer. This function cuts a transmission OFF after 130 min. of continuous transmission. This timer can be cancelled. · tOt.OF : The time-out timer is turned OFF. (default) · tOt. 130 : The transmission is cut OFF after the set period elapses. 48 11 OTHER FUNCTIONS D Auto power-off The transceiver can be set to automatically F MR turn OFF after a specified period with a beep when no key operations are performed. · 30 min., 1 hour, 2 hours and OFF (default) F can be specified. The specified period is re- AO MR tained even when the transceiver is turned OFF by the auto power-off function.

To cancel the function, select "POF.OF" in this set mode. D Repeater lock-out Selects lockout type from repeater, busy and OFF. · RLO.RP : The repeater lockout is turned ON. · RLO.bu : The busy lockout is turned ON. · RLO.OF : No lockout is activated. (default) D Squelch delay Selects squelch delay from short and long to prevent repeated opening and closing of the squelch during reception of the same signal.

· Sgt. S: The squelch closes in short delay. (default) · Sgt. L: The squelch closes in long delay. TX TX F MR TX F MR TX F MR TX D DTMF speed The rate at which DTMF memories send individual DTMF characters can be set to accommodate operating needs.

· 1: 100 msec. interval; 5.0 cps speed (default) · 2: 200 msec. interval; 2.5 cps speed · 3: 300 msec. interval; 1.6 cps speed · 5: 500 msec. interval; 1.0 cps speed (cps=characters/sec.) 49 OTHER FUNCTIONS 11 D Dial assignment Selects [VOL] control action from AF volume and tuning dial. · tOP.VO : AF volume (default) · tOP.dI : Tuning dial F MR TX F MR TX D Display type Selects LCD indication type from frequency, channel number and channel names. · dSP.FR : Shows frequency (default) · dSP.

CH : Shows channel number* · dSP.Nm: Shows channel names *Memory channels only can be selected. F MR TX F MR TX F MR TX D LCD contrast Selects LCD contrast from auto and low. · LCd.AT : Automatic (default) · LCd.LO : Low contrast F MR TX D Power save Selects duty cycle for power save function F MR from auto, 1:32, 1:16, 1:8, 1:2 and OFF. · PS.At : Duty cycle changes automatically. (default) F MR · PS.32 : 1:32 duty cycle · PS.16 : 1:16 duty cycle · PS. 8 : 1:8 duty cycle · PS. 2 : 1:2 duty cycle · PS.OF : The power save function is turned OFF. TX TX 50 11 OTHER FUNCTIONS D Tuning speed acceleration The tuning speed acceleration automatically speeds up the tuning speed when pushing and holding [] or [], or rotating [VOL]

* · SS.At : The tuning speed acceleration is activated. (default) · SS. m : The tuning speed acceleration is not activated. *When tuning dial is assigned with [VOL].

F MR TX F MR TX 51 OTHER FUNCTIONS 11 Optional HM-75A required D Mic simple mode This item turns the microphone simple mode F TX MR ON and OFF. Microphone simple mode is used to change the function assignments for keys in the optional HM-75A REMOTE CONTROL F TX SPEAKER-MICROPHONE as below. This assignMR ment is convenient for 3-channel use of simple operation. @@CH Freq. CH Freq. CH Freq. CH NORMAL1 [B·CALL] Null VFO/Memory Null Freq. Up Memory CH Up NORMAL2 [SQL] VFO/Memory Null Freq.



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Up Memory CH Up SIMPLE [SQL] [B-CALL] MR-00CH MR-01CH Freq. Down Freq.

@@ Push [A] while pushing [PTT]. NOTE: Turn power OFF when connecting the HM-75A to the transceiver. @@when first applying power). This may be caused externally by static electricity or other factors. If this problem occurs, turn power OFF. After waiting a few seconds, turn power ON again. If the problem persists, perform CPU resetting operation as follows. · While pushing [SQL] and [D-CLR], turn power ON. @@w While pushing [A-FUNC] + [Y], turn power ON to enter cloning mode (master transceiver only-- power ON only for sub-transceiver). · "CLONE" appears and the transceivers enter the clone standby condition.

e Push [PTT] on the master transceiver. · "CL" appears in the master transceiver's display and two digit numbers show that data is being transferred to the sub-transceiver. · "CL IN" appears automatically in the sub-transceiver's display and two digit numbers show that data is being received from the master transceiver. r When cloning is finished, turn power OFF, then ON again to exit cloning mode. NOTE: DO NOT push the [PTT] on the sub-transceiver during cloning.

@@@ (The cover cannot be used again.) q WARNING! @@w Attach the optional unit. Insert the connector tightly to avoid a bad contact. @@r Attach the new 2251 OPT sheet to the service window. t Program the necessary information from the transceivers key pads or using the cloning software, before operation.

r e w 55 SPECIFICATIONS D General · Frequency range · Operating temp. range · Frequency stability · Antenna connector · Power supply requirement · Current drain (at 7.2 V DC) Transmit at 5.5 W at 0.5 W Receive at max. AF Stand-by Power save · No. of memory channels · Tuning steps · Dimensions (proj. not incl.) · Weight (approx.) 14 : 144146 MHz (Tx/Rx) : 10°C to +60°C : ±10 ppm (10°C to +60°C) : BNC (50) : 7.

2 V DC (610.3 V DC acceptable; Icom's battery pack only) : Less than 2.0 A Less than 0.8 A Less than 250 mA Less than 70 mA Less than 20 mA : 107 (incl. 1 call and 6 programmed scan edges) : 5, 10, 12.5, 15, 20, 25, 30 and 50 kHz : 54(W)×132(H)×35(D) mm : 350 g (with BP-222) 190 g (without battery pack) : Variable reactance frequency modulation : 5.5 W (High), 0.5 W (Low) : ±5.0 kHz : Less than 60 dB : 3-conductor 2.5 (d) mm; 2.

2 k : Double conversion superheterodyne system : 1st: 21.7 MHz, 2nd: 450 kHz : 0.16 µV typ. : 0.1 µV typ. : 65 dB typ. : 65 dB typ. : 75 dB typ. : More than 0.3 W at 10% distortion with an 8 load : 2-conductor 3.

5 (d) mm; 8 D Transmitter · Modulation system · Output power (at 7.2 V DC) · Max. frequency deviation · Spurious emissions · External mic. connector D Receiver · Receiving system · Intermediate frequencies · Sensitivity (at 12 dB SINAD) · Squelch sensitivity · Selectivity · Intermodulation rejection · Spurious & image rejection · Audio output power (at 7.2 V DC) · External speaker connector 56 15 OPTIONS D BATTERY PACKS Battery Pack BP-208*2 BP-209 BP-210 BP-222 Voltage Capacity Output Power 5.5 W 5.5 W 5.5 W 5.5 W Operating Period*1 -- 7.5 hrs.

11 hrs. 4 hrs. Battery case for R6 (AA) ×6 alkaline cells 7.2 V 7.2 V 7.2 V 1100 mAh 1650 mAh 600 mAh *1 Operating periods are calculated under the following conditions: Tx:Rx:standby=5:5:90, power save function: auto setting, is activated *2 Operation with the LOW output power selection is recommended. D CHARGER · BC-144 DESKTOP CHARGER + BC-145 AC ADAPTER For rapid charging of battery packs. An AC adapter is supplied with the charger. Charging time: 1.5 to 2 hrs.

· BC-137 (#11) BATTERY CHARGER + BC-122 AC ADAPTER For regular charging of battery packs. An AC adapter is additionally required. Charging time: 15 hrs. · BC-146 BATTERY CHARGER + BC-147 AC ADAPTER For regular charging of battery packs. An AC adapter is additionally required. Charging time: 18.5 hrs. · BC-121N MULTI-CHARGER + AD-94 (#11) CHARGER ADAPTER (6 pcs.) For rapid charging of up to 6 battery packs (six AD-94's are required) simultaneously. An AC adapter may be supplied depending on version.

Charging time: 1.5 to 2 hrs. · BC-119N DESKTOP CHARGER + AD-94 (#11) CHARGER ADAPTER For rapid charging of battery packs. An AC adapter is supplied with the charger. Charging time: 1.5 to 2 hrs. D INTERNAL UNIT · UT-108 DTMF DECODER UNIT Provides pager and code squelch capabilities. 57 OPTIONS 15 D OTHER OPTIONS · HM-54/HM-46L/HM-75A/HM-131L SPEAKER-MICROPHONES Combination speaker-microphones that provide convenient operation while hanging the transceiver from your belt. HM-75A has 4 function switches for remote control capabilities. HM-131L has moisture proof construction.

· HM-128L EARPHONE-MICROPHONE You can clip the microphone with PTT switch to your lapel or breast pocket. · HS-51 HEADSET Allows you hands-free operation. Includes VOX, PTT and "onetouch" PTT with time-out timer. · MB-68 BELT CLIP Same as that supplied with the transceiver. · MB-74 BELT CLIP Exclusive alligator-type belt clip. · OPC-474 CLONING CABLE For cloning between transceivers. · SP-13 EARPHONE Provides clear receive audio in noisy environments. HM-131L HM-75A HM-46L HM-128L HS-51 58 16 CE ABOUT CE The IC-T3H complies with the essential requirements of the European Radio and Telecommunication Terminal Directive 1999/5/EC. This warning symbol indicates that this equipment operates in non-harmonised frequency bands and/or may be subject to licensing conditions in the country of use. Be sure to check that you have the correct version of this radio or the correct programming of this radio, to comply with national licensing requirements.

INSTALLATION NOTES · When transmitting with a portable radio, hold the radio in a vertical position with its microphone 2.5 to 5 centimeters away from your mouth. Keep antenna at least 2.5 centimeters from your head and body. · If you wear a portable two-way radio on your body, ensure that the antenna is at least 2.

5 centimeters from your body when transmitting. 59 DECLARATION OF CONFORMITY We Icom Inc. Japan 1-1-32, Kamiminami, Hirano-ku Osaka 547-0003, Japan Düsseldorf 21st May 2001 Place and date of issue Declare on our sole responsibility that this equipment complies with the essential requirements of the Radio and Telecommunications Terminal Equipment Directive, 1999/5/EC, and that any applicable Essential Test Suite measurements have been performed. Kind of equipment: VHF TRANSCEIVER Icom (Europe) GmbH Himmelgeister straÙe 100 D-40225 Düsseldorf Authorized representative name Type-designation: iC-t3h Version (where applicable): This compliance is based on conformity according to Annex III of the directive 1999/5/EC using the following harmonised standards: T.



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Maebayashi General Manager i) Article 3.

1a ii) Article 3.1b iii) Article 3.2 iv) v) EN 60950 + A11 EN 301489-1 and EN 301489-15 (or ETS 300 684) EN 301 783-2 Signature <Intended Country of Use> I GER I FRA I ESP I SWE I AUT I NED I POR I DEN I GBR I BEL I ITA I FIN I IRL I LUX I GRE I SUI I NOR A-6067H-1EU-q Printed in Japan ©
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